| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|--|--------------------|---------------------|---------|------------------|
| L1 | 5 | ("5703773" "6308136" "6597993" "6600995" "20030093223").pn. | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:52 |
| L2 | 1 | ("5703773" "6308136" "6597993" "6600995" "20030093223") and euclidean same space same vector and resistivity and formation and depth and measurement and pattern same vector | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:53 |

| | U | 1 | Document ID | Issue Date | Pages |
|---|---|---|----------------------|------------|-------|
| 1 | | X | US 20050075789 A1 | 20050407 | 25 |

| | Title | Current OR | Current XRef |
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| 1 | Method and apparatus for inversion processing of well logging data in a selected pattern space | 702/6 | |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|--|--------------------|---------------------|---------|------------------|
| L1 | 5 | ("5703773" "6308136" "6597993" "6600995" "20030093223").pn. | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:52 |
| L2 | 1 | ("5703773" "6308136" "6597993" "6600995" "20030093223") and euclidean same space same vector and resistivity and formation and depth and measurement and pattern same vector | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:53 |

| | U | 1 | Document ID | Issue Date | Pages |
|---|---|---|----------------------|------------|-------|
| 1 | х | | US 20030093223 A1 | 20030515 | 12 |
| 2 | Х | | US 6600995 B2 | 20030729 | 17 |
| 3 | × | | US 6597993 B2 | 20030722 | 17 |
| 4 | х | | US 6308136 B1 | 20011023 | 11 |
| 5 | x | | US 5703773 A | 19971230 | 20 |

| | Title | Current OR | Current XRef |
|---|--|------------|--------------------|
| 1 | 2-D inversion of multi-component induction logging data to resolve anisotropic resistivity structure | 702/7 | |
| 2 | High resolution array induction tool | 702/7 | 324/339 |
| 3 | High resolution array induction tool | 702/7 | 324/338; 703/10 |
| 4 | Method of interpreting induction logs in horizontal wells | 702/7 | 285/124.1 |
| 5 | Real-time 2-dimensional inversion process and its application to induction resistivity well logging | 702/7 | 702/11 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|---|---|---------------------|---------|-----------------------|
| L1 | 6 | ("5768106" "5594706" "6681185" "6084826" "6614360" "6473696"). pn. | US-PGPUB; USPAT | OR | ON | 2005/05/15 11:34 |
| L2 | 648 | (seismic or geophysical) and pattern with space\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:35 |
| L3 | 1344 | (seismic or geophysical) and pattern same space\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:36 |
| L4 | 1 | (seismic or geophysical) and pattern same space\$3 same inversion\$3 same process\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:37 |
| L5 | 6 | (seismic or geophysical) and pattern same (space\$3 same inversion\$3) and process\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:38 |
| L6 | 5 | (seismic or geophysical) and pattern same (space\$3 same inversion\$3) and model\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:07 |
| L7 | 1 | (seismic or geophysical) and pattern same (space\$3 same inversion\$3) and model\$3 and ((first same subset) or (second same subset)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:40 , |
| L8 | 10 | (seismic or geophysical) and (pattern same space\$3) and inversion\$3 and model\$3 and conductivity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:48 |

| L9 | 1 | (seismic or geophysical) and ((pattern with space\$3) or (pattern with vector)) and inversion\$3 and model\$3 and conductivity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:49 |
|-----|-----|---|---|----|----|------------------|
| L10 | 126 | ((pattern with space\$3) or (pattern with vector)) and inversion\$3 and model\$3 and conductivity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:50 |
| L11 | 19 | ((pattern with space\$3) or (pattern with vector)) and inversion\$3 and model\$3 and conductivity and data with model | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:50 |
| L12 | 2 | ((selected same pattern with space\$3) or (pattern with vector)) and inversion\$3 and model\$3 and conductivity and data with model | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:54 |
| L14 | 4 | ((selected same pattern with space\$3) or (pattern with vector)) and inversion\$3 same model and model\$3 and conductivity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:57 |
| L15 | 1 | ((selected same pattern with space\$3) or (pattern with vector)) and inversion\$3 same model and model\$3 and conductivity and (seismic) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:57 |
| L16 | 1 | ((selected same pattern with space\$3) or (pattern with vector)) and inversion\$3 same model and model\$3 and conductivity and (seismic or geophysical) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:58 |
| L17 | 1 | ((selected same pattern with space\$3) or (pattern with vector)) and inversion\$3 same model and model\$3 and conductivity and (seismic or geophysical or wellbore) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:58 |

| L18 | 1 | ((selected same pattern same space\$3) or (pattern with vector)) and inversion\$3 same model and model\$3 and conductivity and (seismic or geophysical or wellbore) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:58 |
|-----|---|---|---|----|----|------------------|
| L19 | 2 | ((selected same pattern same space\$3) or (pattern same vector)) and inversion\$3 same model and model\$3 and conductivity and (seismic or geophysical or wellbore) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 11:58 |
| L20 | 5 | inversion and (seismic or geophysical) and pattern same (space\$3 same inversion\$3) and model\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:07 |
| L21 | 4 | inversion with process\$3 and (seismic or geophysical) and pattern same (space\$3 same inversion\$3) and model\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:08 |
| L22 | 4 | ("5103429" "5109947" "5151882" "5191557").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:20 |
| L23 | 5 | ("4718048" "4829489" "4862423" "4965774" "5031158").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:20 |
| L24 | 0 | ("4718048" "4829489" "4862423" "4965774" "5031158").PN. and inversion same model | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:20 |
| L25 | 0 | ("4718048" "4829489" "4862423" "4965774" "5031158").PN. and inversion and model | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:20 |
| L26 | 0 | ("5103429" "5109947" "5151882" "5191557").PN. and model and inversion | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:20 |
| L27 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:22 |
| L28 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:26 |

| | | ("F102420" "F100047" | LIC DCDLID: | OR | ON | 2005/05/15 12:27 |
|-----|---|---|---|------|----|------------------|
| L29 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OK . | ON | 2005/05/15 12:27 |
| L30 | 0 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and subset | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:27 |
| L31 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and selected | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:27 |
| L32 | 0 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and selected and pattern | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:28 |
| L33 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and selected and space | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:28 |
| L34 | 0 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and selected same space | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:28 |
| L35 | 1 | ("5103429" "5109947" "5151882" "5191557").PN. and model and space and (first or second) and transform\$3 and selected | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 12:28 |
| L36 | 1 | ("4878205").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:30 |
| L37 | 3 | ("4363113" "4503527" "4742497").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/05/15 12:36 |

| L38 | 22 | pattern same space and measured and euclidean same space and pattern same recognition and space with pattern same vector quantitative same categorization and seismic same data | US-PGPUB; USPAT | OR | ON | 2005/05/15 12:39 |
|-----|-----|---|---|------|----|------------------|
| L39 | 0 | pattern same space and measured and euclidean same space and pattern same recognition and space with pattern same vector and quantitative same categorization and seismic same data | US-PGPUB; USPAT | OR | ON | 2005/05/15 12:39 |
| L40 | 408 | ((pattern same space) or (measured and euclidean same space) or (pattern same recognition) or (space with pattern same vector) or (quantitative same categorization)) and seismic same data | US-PGPUB; USPAT | OR | ON | 2005/05/15 12:41 |
| L41 | 8 | I40 and inversion with model | US-PGPUB; USPAT | OR | ON | 2005/05/15 12:45 |
| L42 | 4 | I40 and inversion with model and conductivity | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:02 |
| L43 | 1 | euclidean same space same vector and resistivity and formation and depth and measurement and pattern same vector | US-PGPUB; USPAT | OR . | ON | 2005/05/15 12:59 |
| L44 | 28 | inversion same process\$3 and well same log\$4 and select\$3 same pattern same space | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:01 |
| L45 | . 1 | inversion same process\$3 and well same log\$4 and select\$3 same pattern same space and resistivity same formation | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:01 |
| L46 | 0 | ("2005/0075789").URPN. | USPAT | OR | ON | 2005/05/15 13:01 |
| L47 | 5 | I40 and inversion with model and (conductivity or resistivity) and formation and measurement | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:03 |
| L48 | 3 | I40 and inversion with model and (conductivity or resistivity) and formation same measurement | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:04 |
| L49 | 3 | I40 and inversion with model and (conductivity or resistivity) and formation same measurement | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 13:05 |
| L51 | 32 | ((xiao same jiaqi) or (bittar same mich\$4)).in. | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:11 |

| L52 | 9 | ((xiao same jiaqi) or (bittar same mich\$4)).in. and inversion same process\$3 | US-PGPUB; USPAT | OR | ON | 2005/05/15 13:12 |
|-----|---|---|---|----|------|------------------|
| L53 | 9 | ((xiao same jiaqi) or (bittar same mich\$4)).in. and inversion same process\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 13:12 |
| L54 | 0 | ((xiao same jiaqi) or (bittar same mich\$4)).in. and inversion same process\$3 and parrern same space and vector | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON . | 2005/05/15 13:13 |
| L55 | 1 | ((xiao same jiaqi) or (bittar same mich\$4)).in. and inversion same process\$3 and pattern same space and vector | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/15 13:13 |

| | U | 1 | Document ID | Issue Date | Pages |
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| 1 | | х | US 6603313 B1 | 20030805 | 21 |
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| | Title | Current OR | Current XRef |
|---|--|------------|-------------------|
| 1 | Remote reservoir resistivity mapping | 324/354 | 324/359; 702/5 |
| | Systems and methods for forward modeling of well logging tool responses | 702/9 | |
| 3 | Electromagnetic imaging device and method for delineating anomalous resistivity patterns associated with oil and gas traps | 324/359 | |